

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,283,889 B2
APPLICATION NO. : 10/776248
DATED : October 16, 2007
INVENTOR(S) : Toshiaki Otsuki et al.

Page 1 of 2

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On the Title Page, Item 57 - (Abstract), Line 8, change " α " to $--a--$.

On the Title Page, Item 57 - (Abstract), Line 12, change " α " to $--a--$.

Column 5, Line 58, change " $\cos(x)$ " to $--\cos(c)--$.

Column 6, Line 64, change " $\alpha_{ac,H}$ " to $--\alpha_{c,H}--$.

Column 7, Line 35, change " gs_H " to $--\gamma_{s,H}--$.

Column 8, Line 18, change " α " to $--a--$.

Column 8, Line 29, change " α " to $--a--$.

Column 9, Line 45, change " α " to $--a--$.

Column 11, Line 18, change " Mct_r " to $--Mci_r--$.

Column 11, Line 22, change " Mem_r " to $--Mcm_r--$.

Column 12, Line 5, change " αis " to $--a is--$.

Column 15, Line 1, change " α " to $--a--$.

Column 15, Line 3, change " α " to $--a--$.

Column 18, Line 48, change " $\cos(-c)0$ " to $--\cos(-c)--$.

Column 22, Line 15, change "rotations," to $--rotation,--$.

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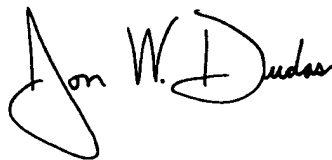
Page 2 of 2

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 23, Line 21, change "rotating a tool length vector of the tool by an amount head in correspondence with" to --rotating a tool length vector of the tool head by an amount in correspondence with--.

Signed and Sealed this

Twenty Second Day of April, 2008

A handwritten signature in black ink, appearing to read "Jon W. Dudas". The signature is stylized with a large, looping initial "J" and a distinct "D".

JON W. DUDAS
Director of the United States Patent and Trademark Office